500Mbps Powerline AV Adapter

TPL-401E (V1.0R)

The 500Mbps Powerline AV Adapter, model TPL-401E, uses any electrical outlet to create a secure building-wide high speed network. Connect one adapter to your network and plug another adapter into any outlet on your electrical system for instant high speed network access.

Connect adapters quickly using the convenient one-touch Sync button. Use up to 16* adapters to network devices in different rooms without running new cabling.

A Gigabit Ethernet port maintains high performance wired connections. Manage each Powerline adapter on your network with the included Windows utility. LED displays convey device status for easy troubleshooting. Advanced 128-bit AES encryption secures your network. This adapter is ideal for use in buildings that interfere with wireless networking signals.

Characteristics

- High speed building-wide networking over an existing electrical system
- 1 x 10/100/1000Mbps Auto-MDIX Gigabit port
- Connect one 500Mbps** Powerline AV Adapter to the Internet and then plug in up to 15* additional 500Mbps** Powerline AV adapters for instant building-wide connectivity
- One-touch Sync button networks adapters quickly
- Windows-based powerline configuration utility
- Share data intensive files, play games, download music, and more at ultra fast data transfer rates
- Advanced 128-bit AES encryption to ensure total network security
- Power Save mode reduces electrical consumption by up to 70%
- Neighbor network support for up to 4 overlapping networks
- Tri-color LED indicator
- Network signal transmitted up to 300 meters (984ft.)
- Auto QoS support through traffic classification and multiple priority queuing
- Configuration utility compatible with Windows 7, Vista, and XP (32/64-bit) operating systems
- 3-year limited warranty

* Maximum of 16 adapters (nodes) recommended for streaming video across your network. Additional adapters may decrease performance.
** 500Mbps is the maximum theoretical Powerline data rate. Actual throughput will vary depending on environment.
*** Networked Powerline devices need to be plugged into power outlets that are on the same electrical system.
****It is not recommended to use this product on electrical systems that use AFCI circuit breakers or plugged into GFI protected outlets as this may cause performance degradation or loss in connectivity.

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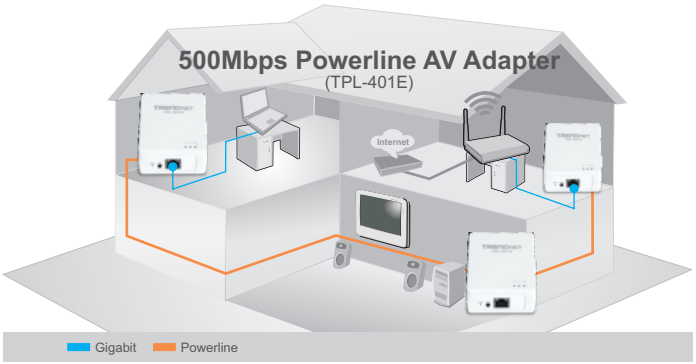
SPECIFICATIONS

Hardware	
Standards	• IEEE 1901, HomePlug® AV, IEEE 802.3, IEEE 802.3x, IEEE 802.3u, IEEE 802.3ab
Interface	• 1 x 10/100/1000Mbps Auto-MDIX RJ-45 Port, Power Prong
Frequency Band	• 2 ~ 50 MHz
Modulation	• OFDM Symbol Modulation on link synchronization, 1024/256/64/8 - QAM, QPSK, BPSK, ROBO Carrier
Protocols	• TDMA and CSMA/CA
Speed	• Powerline: up to 500Mbps** • Ethernet: up to 2 Gbps with Full Duplex mode
Utility OS Compatibility	• Windows 7 (32/64-bit), Vista (32/64-bit), XP(32/64-bit)
Nodes	• Up to 64 (max.) • Recommended: Up to 16* per powerline network
Overlapping Powerline Networks	• Up to 4 (per electrical system)
Coverage	• Up to 300m (984ft.)
Security	• 128-Bit AES (Advanced Encryption Standard)
LED	• Power (PWR), Ethernet Link/Act (ETH) • Powerline (PL) with Connection Quality Indication • Best (Green) • Better (Amber) • Good (Red)
Buttons	• Sync, Reset
Dimension (L x W X H)	• A: 98 x 72 x 55 mm (3.9 x 2.8 x 2.2 in.) • EU: 98 x 72 x 70 mm (3.9 x 2.8 x 2.8 in.)
Weight	• A: 150 g (5.3 oz) • EU: 155 g (5.5 oz)
Power Source	• A: 100~230V AC, 50~60Hz • EU: 220~240V/ 5A AC, 50Hz
Consumption	• Active mode: 4.69 Watts (max.) • Standby mode: 0.85 Watts (max.)
Temperature	• Operating: 0° ~ 40°C (32° ~ 104°F) • Storage: -20° ~ 70°C (-4° ~ 158°F)
Humidity	• Max. 90% (non-condensing)
Certifications	• CE, FCC

NETWORKING SOLUTIONS



PACKAGE CONTENTS

- TPL-401E
- Multi-Language Quick Installation Guide
- CD-ROM (Utility and User's Guide)
- Cat. 5 Ethernet cable (1.5 m / 5 ft.)

RELATED PRODUCTS

TEW-673GRU	300Mbps Concurrent Dual Band Wireless N Gigabit Router
TPL-305E	200Mbps Powerline AV Adapter with Bonus Outlet
TPL-310AP	300Mbps Wireless Easy-N-Upgrader

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